	. <u> </u>		
	Application No.	Applicant(s)	
Notice of Allowability	10/006,385 Examiner	KELLER ET AL. Art Unit	
	Ling-Siu Choi	1713	
The MAILING DATE of this communication app All daims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in) or other appropriate commu IGHTS. This application is st	this application. If not include nication will be mailed in due	ed course. THIS
1. This communication is responsive to the Amendment filed	November 18, 2004.		
2. The allowed claim(s) is/are <u>1-19</u> .			
3. \boxtimes The drawings filed on <u>07 March 2002</u> are accepted by the	Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mu: (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to attached Examiner's comment regarding REQUIREMENT	e been received. e been received in Application of the communication to file MENT of this application. Initted. Note the attached EXA es reason(s) why the oath or st be submitted. Son's Patent Drawing Review of Samendment / Comment or 1.84(c)) should be written on the header according to 37 CFF esit of BIOLOGICAL MATE	in No In this national stage application this national stage application the reply complying with the red MINER'S AMENDMENT or Note of the declaration is deficient. (PTO-948) attached in the Office action of the R 1.121(d). RIAL must be submitted. N	quirements OTICE OF
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Su Paper No./N 7. Examiner's A	ormal Patent Application (PTC mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allo	ŕ

Application/Control Number: 10/006,385

Art Unit: 1713

DETAILED ACTION

1. This Office Action is in response to the Amendment filed November 18, 2004.

Claims 1-19 are now pending, wherein claims 1-10 are drawn to a composition comprising iron nanoparticles dispersed homogeneously throughout; claims 11-16 are drawn to a method to form the composition; claims 17-19 are drawn to a composition having iron nanoparticles dispersed homogeneously throughout.

Allowable Subject Matter

- 2. Claims 1-19 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest references: Ting et al. (US 5,389,400).

The present invention relates to a composition obtained from heating to a temperature of from about 300°C and above a mixture of

(a)	ferrocenylethynyl containing component	1,4-bis(ferrocenyl)butadiyne, 1-ferrocenylethynyl-4-(phenylethynyl)benzene, 1,3-bis(ferrocenylethynyl)benzene		
(b)	aromatic-acetylene containing component	1,2,4,5-tetrakis(phenylethynyl) benzene, 1,2,4-tris(phenylethynyl benzene, 1,3,5-tris(phenylethynyl)benzene		
wher	wherein the iron nanoparticles homogeneously dispersed throughout			

(summary of claim 1)

Application/Control Number: 10/006,385 Page 3

Art Unit: 1713

Ting et al. (US 5,389,400) disclose a carbon/carbon composite obtained by the steps comprising (a) producing vapor grown carbon fibers by the pyrolysis of a hydrocarbon gas in the presence of a small particles of iron having diameters less than 10 nm, which are spread on a substrate as a catalyst for fiber growth at 900°C under a mixture of methane and hydrogen, (b) forming a preform from the resulting carbon fiber, (c) carbonizing the preform at 900°C over a three day period, and then (d) carbonizing, the carbonized preform at 2800°C prior to densification (Example 1). However, Ting et al. (US 5,389,400) does not teach or fairly suggest a composition comprising nanoparticles homogeneously dispersed throughout and fails to teach or suggest the particularly claimed process used to form the composition.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

Art Unit: 1713

examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

Ling-sui Choi Primary examiner

December 10, 2004